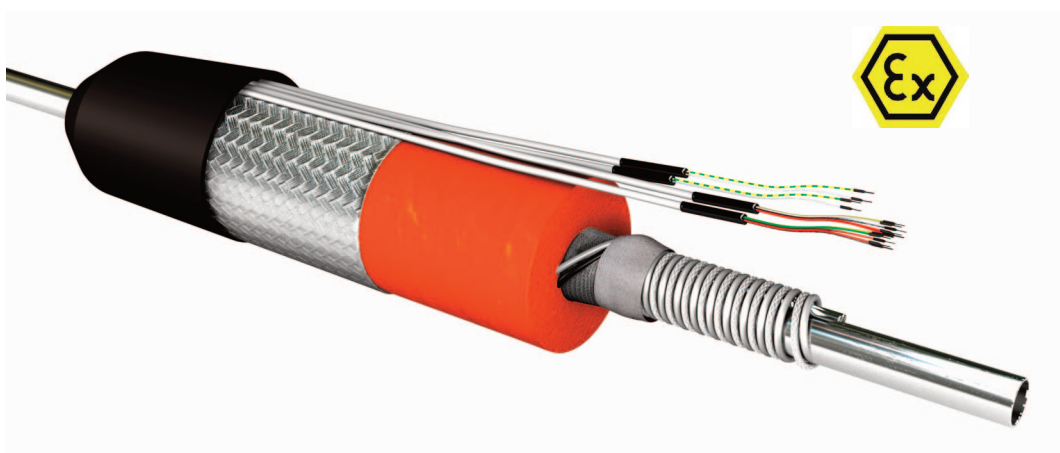


**JCT**  
Analysentechnik

# JH3EX Heated Sample Line



Gas Sampling  
Probes

Heated Sample Lines

Sample Gas  
Coolers

Condensate  
Treatment

Accessories

Gas Conditioning  
Systems

Sample Gas  
Converters

## APPLICATION

- Extractive gas analysis
- Emission and process monitoring
- Installation in zone 1, 2 or 21, 22
- Transport of sample gas from sample point to analysis system
- Remains steadily/safely above acid dew point
- Protection against measured value falsification and frost
- Indoor and outdoor use

## BENEFITS

- No condensate formation, no freezing
- Resilient external protection
- Excellent insulation
- Optimal heat deployment
- Customer specific executions
- Long lifetime
- Kink protection

## FEATURES

- Operating temperature regulated up to 180 °C
- Antistatic external jacket of corrugated polyamide PA12
- Heat insulation with thermo fleece
- 2 x Ex-Pt100 temperature sensors
- Ready to use
- Second core for e.g. calibration gas as option
- Inner core reinforced with stainless steel braid

## TECHNICAL DATA

### Model

**JH3EX**

Description	ATEX approved regulated heated sample line (requires temperature controller)
External jacket	corrugated polyamide 12 jacket, black, anti-static
Sample gas core	fixed, interchangeable on request
Area of application	mobile and fixed installation indoor and outdoor

### OPERATION

Operating temperature	max. 180 °C
Operating pressure at 180 °C	atmospheric option pressure hose: - PTFE / PFA core: DN 4/6 mm 4 bara; DN 6/8 mm 3 bara; DN 8/10 mm 2 bara, 1/4" OD 5 bara, 3/8" OD 4 bara - SS316 core, all diameters: 10 bara
Ambient temperature*	-40 °C to +50 °C

### CONSTRUCTION

Material inner core	PTFE, PFA, SS316
Heating element	ATEX certified spiraled line heater
Temperature sensors**	2x ATEX certified Ex-PT100, 3-wire
Thermal insulation	multi-layered thermo fleece
End configuration	silicone caps (see table below), sample gas core 100 mm protruded
Maximum sample line length* (for one heating circuit)	<b>115 V:</b> DN 4/6 and 6/8 mm – 11 m, DN 8/10 mm – 10 m <b>230 V:</b> DN 4/6 and 6/8 mm – 25 m, DN 8/10 mm – 22 m <b>400 V:</b> DN 6/8 mm – 40 m, DN 8/10 mm – 36 m (only for sample gas core 6/8 mm or bigger)
Diameter sample line outside	63 mm
Minimum bending radius	300 mm
Dimensions of silicone caps	L = 110 mm, Ø 69 mm or 61 mm with taper at probe side
Type of protection	⚠ II 2G Ex 60079-30-1 eb IIC T3 - T6 Gb ⚠ II 2D Ex 60079-30-1 tb IIIC T200 °C - T85 °C Db IP65
Protection class	Electric components: IP65 Mechanic components: IP54
Approvals / Sign	CE / ATEX, TRCU on request

### ELECTRICS

Power supply	115 VAC 50/60 Hz or 230 VAC 50/60 Hz or 400 VAC 50/60 Hz, 2-phase connection
Power consumption	DN 4/6 mm, DN 6/8 mm: 100 W/m. DN 8/10 mm: 110 W/m
Connection cable	1.5 m, PTFE-insulated

\* To achieve extended length, JCT offers heated lines with reduced power (W/m) or with a second heating circuit. For lower ambient temperatures versions with higher performance are available. Please consult JCT sales team.

\*\* Temperature sensor position is 1m from electrical connection. It is mandatory to use a suitable controller and limiter. See separate datasheet for more information.

### End configuration of sample line

		Dimensions in mm	
without electrical connection (side 2 – probe side)		with electrical connection (side 1 – cabinet side)	type
H			K silicone cap
M	<p>Tapering at probe side for use with JES-family sample probes. Requires mounting hole for 50 to 61 mm mounting clamp with JES probe.</p>		L silicone cap



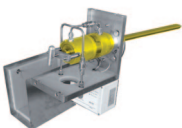
## ORDER CODE

### Accessories

### Part Number

	<p>Universal mounting clamp for mounting at gas sample probes series JES. Requires mounting hole for 50 to 61 mm mounting clamp with JES probe.</p>	<p><b>35.00981</b></p>
	<p>Ex-temperature controller up to 16 A with LED indicator, 230 VAC, 50 Hz</p>	<p><b>89.01000</b></p>
	<p>Ex-temperature controller up to 16 A with display, 230 VAC, 50 Hz</p>	<p><b>89.01010</b></p>
	<p>Ex-temperature limiter up to 16 A with LED indicator, 230 VAC, 50 Hz</p>	<p><b>89.01020</b></p>
	<p>Ex-temperature limiter up to 16 A with display, 230 VAC, 50 Hz</p>	<p><b>89.01030</b></p>
	<p>Handheld controller for 89.01000 &amp; 89.01020 for Ex zone</p>	<p><b>89.01040</b></p>

Gas Sampling Probes



Heated Sample Lines



Sample Gas Coolers



Gas Conditioning Systems



NOx Converter



and solutions for

